US 20090153368A1

(19) United States

(12) Patent Application Publication

HUR et al.

(10) Pub. No.: US 2009/0153368 A1

(43) Pub. Date: Jun. 18, 2009

(54) TACTILE INPUT/OUTPUT DEVICE AND DRIVING METHOD THEREOF

(76) Inventors: **Ji-Hye HUR**, Suwon-si (KR); **Jong-Rim LEE**, Seoul (KR); **Ki-Uk KIM**, Suwon-si (KR); **Chul-Jin KIM**, Yongin-si (KR); **June-Hyeok IM**, Seoul (KR); **Chul-Hyun PARK**, Suwon-si (KR); **Sae-Rome KIM**, Seoul (KR)

Correspondence Address:
CHA & REITER, LLC
210 ROUTE 4 EAST STE 103
PARAMUS, NJ 07652 (US)

(21) Appl. No.: **12/333,430**

(22) Filed: **Dec. 12, 2008**

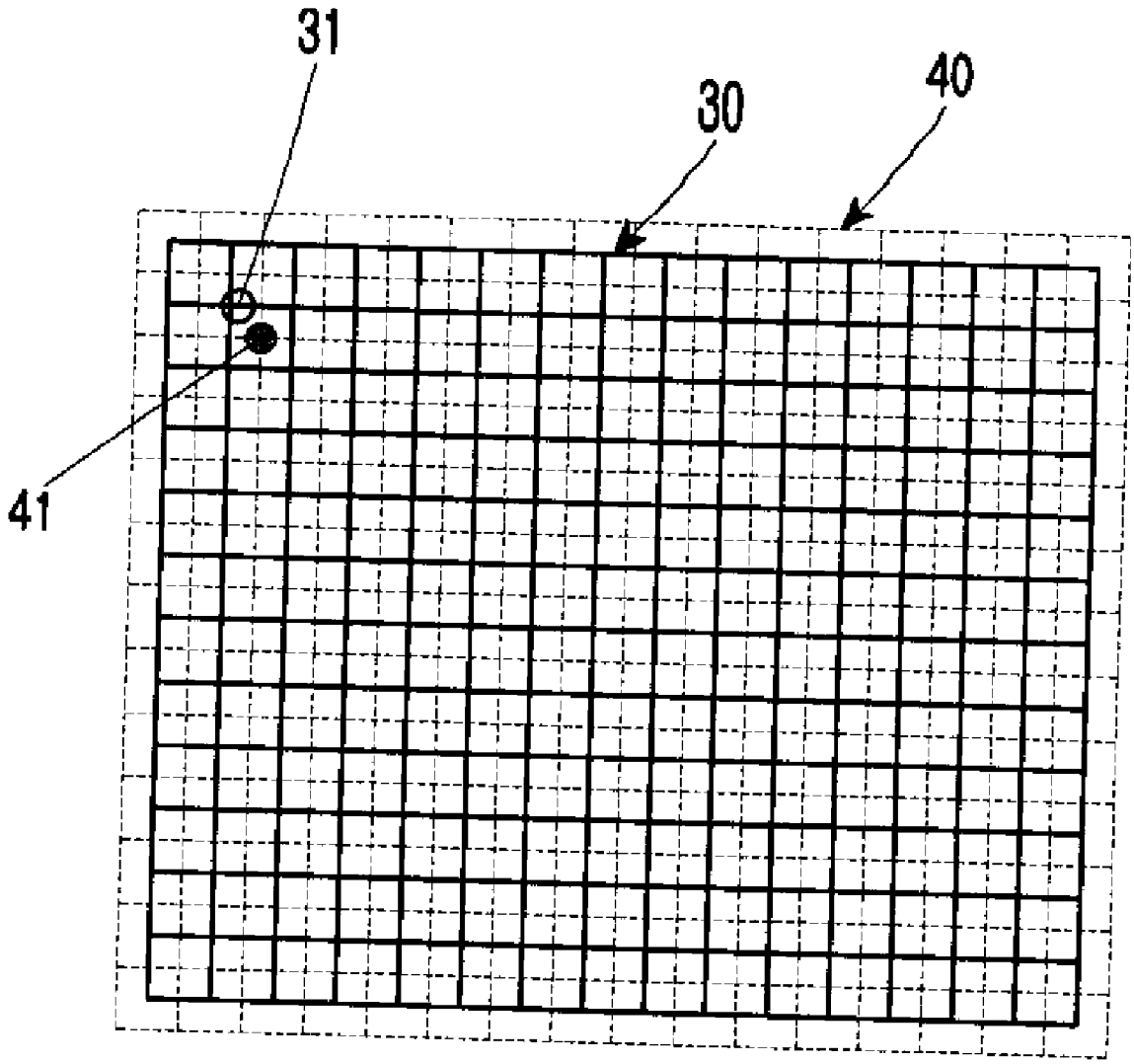
(30) **Foreign Application Priority Data**

Dec. 12, 2007 (KR) 10-2007-0129305

Publication Classification

(51) **Int. Cl.**
H03K 17/94 (2006.01)
H01L 41/113 (2006.01)

(52) **U.S. Cl.** **341/20**; 310/338

(57) **ABSTRACT**

A tactile input/output device and a driving method thereof are provided. The device includes at least one input end, at least one output end, and a controller. The input end includes a plurality of input cells arranged at regular intervals. The output end includes a plurality of output cells arranged at regular intervals. The controller senses an input signal of the input end and controls the output end to generate a corresponding output signal. The input end and the output end are installed to form one array with being separated. The input cell and the output cell are arranged so that they do not overlap with each other.